

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sabaha Ozi Examiner #: 74141 Date: 8/23/04
 Unit: 1616 Phone Number ~~30~~ 206 52 Serial Number: 101070766
 Mail Box and Bldg/Room Location: 4C70 Rem/4445 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched.
 List the elements of species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or
 nature of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if
 known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Herbicide Composition
 Inventors (please provide full names): Jutta Glock

Patent Priority Filing Date: 371 of PCT/EP00/08661 9/5/2000
 (See Appendix 5 - Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the
 application serial number.

Please search for the combination
 of the compounds of formula (1)

and 11a.

Please note provisions in cl. 1.

Thank you

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher	<u>Jan</u>	NA Sequence (#) _____	STN <u>✓</u>
Number of hits	<u>22504</u>	AA Sequence (#) _____	Dialog _____
Number of citations		Structure (#) <u>✓</u>	Questel/Orbit _____
Number of references checked	<u>5124</u>	Bibliographic _____	Dr.Link _____
Number of references	<u>5124</u>	Litigation _____	Lexis Nexis _____
Number of references reviewed		Fulltext _____	Sequence Systems _____
Number of references reviewed	<u>20</u>	Patent Family _____	WWW/Internet _____
Number of references reviewed	<u>420</u>	Other _____	Other (specify) _____

=> fil reg

FILE 'REGISTRY' ENTERED AT 13:46:02 ON 24 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3

DICTIONARY FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

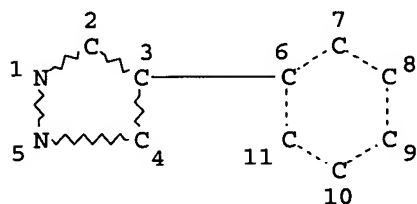
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que 119

L6 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

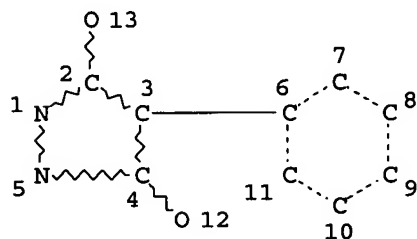
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L8 19778 SEA FILE=REGISTRY SSS FUL L6

L9 STR



NODE ATTRIBUTES:

CONNECT IS E1 RC AT 13

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

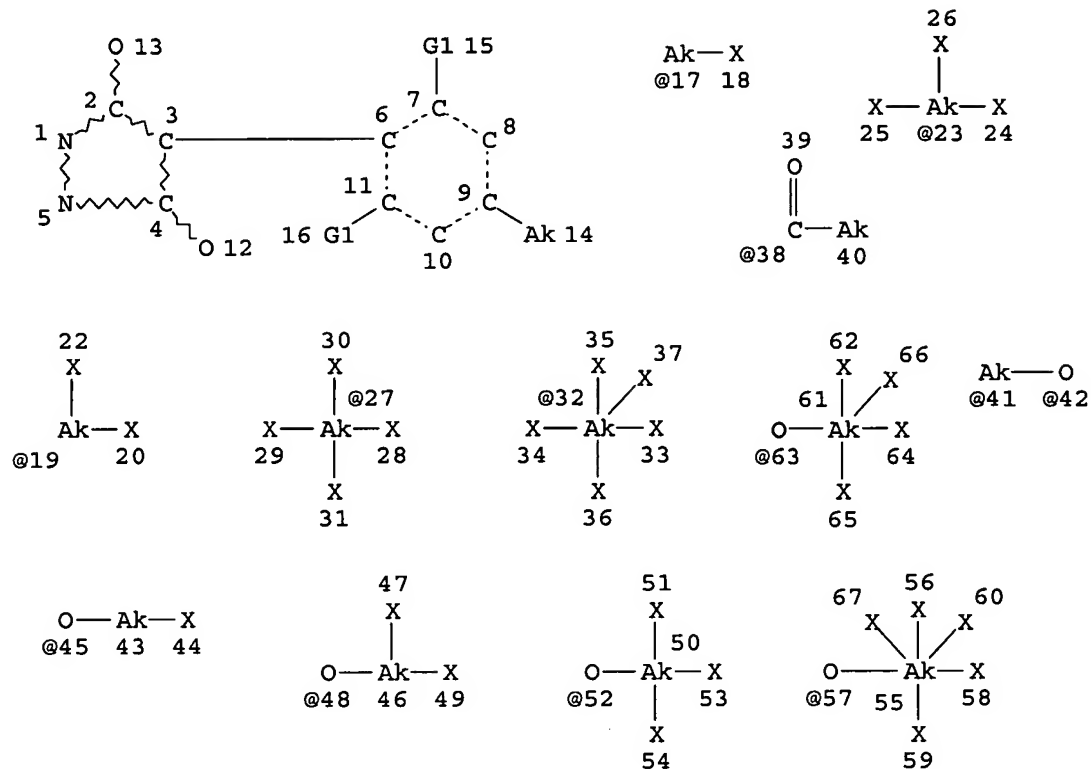
GRAPH ATTRIBUTES:

RSPEC 6
NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L10 920 SEA FILE=REGISTRY SUB=L8 SSS FUL L9

L11 STR



VAR G1=AK/17/19/23/27/32/41/42/38/45/48/52/63/57

NODE ATTRIBUTES:

CONNECT IS M1 RC AT 1

CONNECT IS M1 RC AT 5

CONNECT IS M1 RC AT 12

CONNECT IS M1 RC AT 32

CONNECT IS M1 RC AT 55

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 6

NUMBER OF NODES IS 66

STEREO ATTRIBUTES: NONE

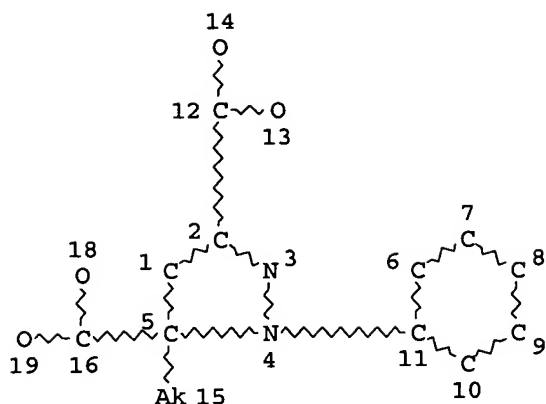
L13 337 SEA FILE=REGISTRY SUB=L10 CSS FUL L11

L18 18 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND NC>=2

L19 319 SEA FILE=REGISTRY ABB=ON PLU=ON L13 NOT L18

=> d sta que l17

L1 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L3 105 SEA FILE=REGISTRY SSS FUL L1
 L15 16 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND 1/NC
 L16 1 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND NC>=2 NOT MXS/CI
 L17 17 SEA FILE=REGISTRY ABB=ON PLU=ON (L15 OR L16)

=> d his

(FILE 'HOME' ENTERED AT 13:27:36 ON 24 AUG 2004)
 SET COST OFF

FILE 'REGISTRY' ENTERED AT 13:27:47 ON 24 AUG 2004

L1 STR
 L2 3 S L1
 L3 105 S L1 FUL
 SAV L3 QAZI070/A
 L4 STR L1
 L5 50 S L4
 L6 STR L4
 L7 50 S L6
 L8 19778 S L6 FUL
 L9 STR L6
 L10 920 S L9 FUL SUB=L8
 SAV L10 QAZI070A/A
 L11 STR L9
 L12 8 S L11 CSS SAM SUB=L10
 L13 337 S L11 CSS FUL SUB=L10
 SAV L13 QAZI070B/A
 L14 0 S L3 AND L13
 L15 16 S L3 AND 1/NC
 L16 1 S L3 AND NC>=2 NOT MXS/CI
 L17 17 S L15,L16
 L18 18 S L13 AND NC>=2
 L19 319 S L13 NOT L18

FILE 'HCAPLUS' ENTERED AT 13:41:16 ON 24 AUG 2004
 L20 77 S L17

L21 16 S L19
 L22 2 S L20 AND L21
 L23 1 S (WO2000-EP8661 OR CH99-1643)/AP, PRN
 E GLOCK J/AU
 L24 29 S E4, E10
 E SYNGENT/PA, CS
 L25 827 S E5, E6 OR SYNGENTA?/PA, CS
 L26 3 S L24, L25 AND L22, L23
 SEL RN

FILE 'REGISTRY' ENTERED AT 13:43:40 ON 24 AUG 2004

L27 97 S E1-E97
 L28 3 S L27 AND L17
 L29 38 S L27 AND L19
 L30 56 S L27 NOT L28, L29
 L31 14 S L30 AND L13
 L32 18 S L30 AND L8
 L33 4 S L32 NOT L31

FILE 'USPATFULL, USPAT2' ENTERED AT 13:45:45 ON 24 AUG 2004

L34 1 S L17 AND L19

FILE 'REGISTRY' ENTERED AT 13:46:02 ON 24 AUG 2004

=> fil uspatall

FILE 'USPATFULL' ENTERED AT 13:46:45 ON 24 AUG 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 13:46:45 ON 24 AUG 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d l34 bib abs hitstr

L34 ANSWER 1 OF 1 USPATFULL on STN
 AN 2003:115814 USPATFULL
 TI Herbicide agent
 IN Glock, Jutta, Mumpf, SWITZERLAND
 Friedmann, Adrian Alberto, Basel, SWITZERLAND
 Cornes, Derek, Allschwil, SWITZERLAND
 PA Syngenta Crop Protection, Inc., Greensboro, NC, United States (U.S.
 corporation)
 PI US 6555499 B1 20030429
 WO 2001017352 20010315
 AI US 2002-69829 20020226 (10)
 WO 2000-EP8659 20000905
 PRAI CH 1999-1640 19990907
 DT Utility
 FS GRANTED
 EXNAM Primary Examiner: Pryor, Alton
 LREP Allen, Rose M.
 CLMN Number of Claims: 3
 ECL Exemplary Claim: 1
 DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
 LN.CNT 1455
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Selectively herbicidal composition for the control of grasses and weeds
 in crops of useful plants, comprising

a) a herbicidally effective amount of a compound of formula I ##STR1##

wherein the substituents are as defined in claim 1;

b) an amount, which is effective for antagonism of the herbicide, of a

safener selected from cloquintocet, an alkali metal, alkaline earth metal, sulfonium or ammonium cation of cloquintocet, or cloquintocet-mexyl, mefenpyr, an alkali metal, alkaline earth metal, sulfonium or ammonium cation of mefenpyr, and mefenpyr-diethyl; and

c) an additive comprising an oil of vegetable or animal origin, or a mineral oil, alkyl esters thereof or mixtures of those oils and oil derivatives.

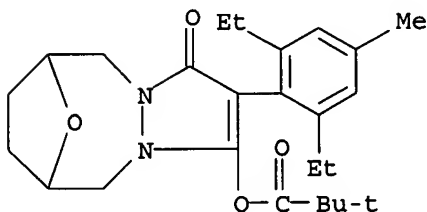
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 243973-68-4P 314020-44-5P 328932-71-4P

(intermediate in preparation of pyrazole derivative herbicide for use with safeners)

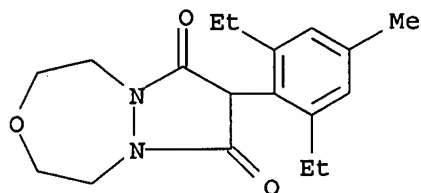
RN 243973-68-4 USPATFULL

CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester
(9CI) (CA INDEX NAME)



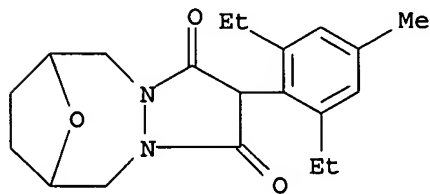
RN 314020-44-5 USPATFULL

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-(2,6-diethyl-4-methylphenyl)tetrahydro- (9CI) (CA INDEX NAME)



RN 328932-71-4 USPATFULL

CN 6,9-Epoxy-1H-pyrazolo[1,2-a][1,2]diazocine-1,3(2H)-dione, 2-(2,6-diethyl-4-methylphenyl)hexahydro- (9CI) (CA INDEX NAME)



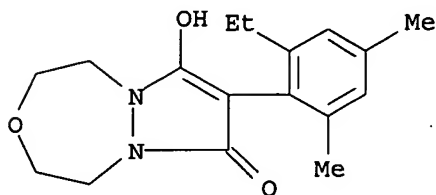
IT 243973-17-3P 243973-18-4P 243973-19-5P
243973-22-0P 243973-23-1P 243973-24-2P
243973-25-3P 243973-26-4P 243973-27-5P
243973-28-6P 243973-29-7P 243973-30-0P
243973-31-1P 243973-32-2P 243973-33-3P
243973-34-4P 328932-72-5P 328932-73-6P

328932-74-7P 328932-75-8P 328932-76-9P
 328932-77-0P 328932-78-1P 328932-79-2P
 328932-80-5P 328932-81-6P 328932-82-7P
 328932-83-8P 328932-84-9P 328932-85-0P
 328932-91-8P 328932-92-9P 328932-93-0P

(preparation as herbicide for use with safeners)

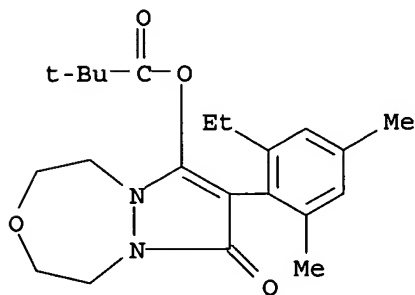
RN 243973-17-3 USPATFULL

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-4,6-dimethylphenyl)-
 1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



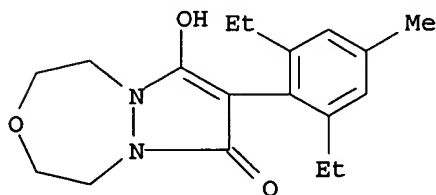
RN 243973-18-4 USPATFULL

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
 (CA INDEX NAME)



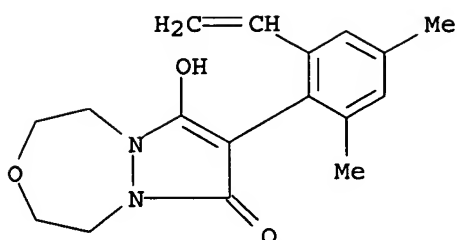
RN 243973-19-5 USPATFULL

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-
 1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



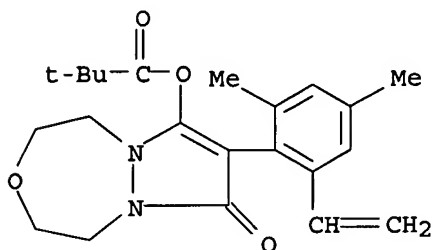
RN 243973-22-0 USPATFULL

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



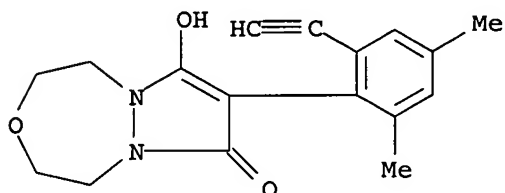
RN 243973-23-1 USPATFULL

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



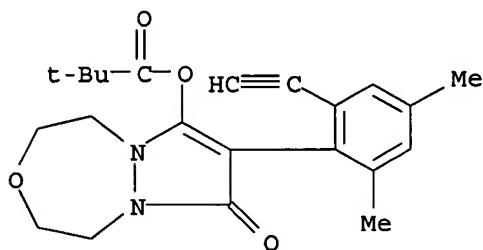
RN 243973-24-2 USPATFULL

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



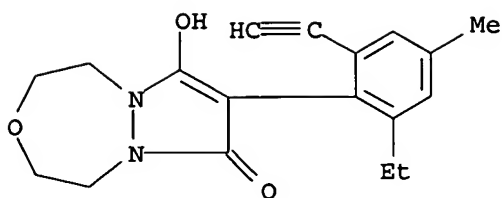
RN 243973-25-3 USPATFULL

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



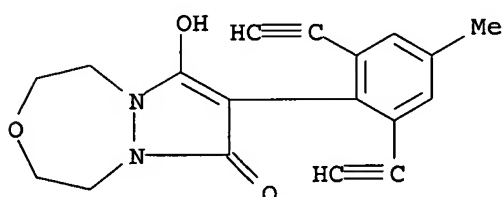
RN 243973-26-4 USPATFULL

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



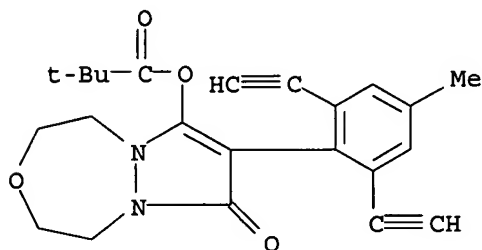
RN 243973-27-5 USPATFULL

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



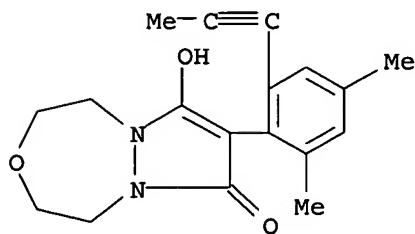
RN 243973-28-6 USPATFULL

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



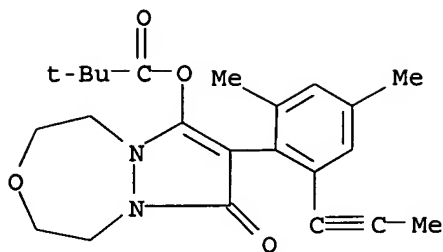
RN 243973-29-7 USPATFULL

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



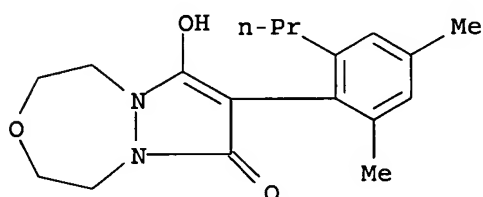
RN 243973-30-0 USPATFULL

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



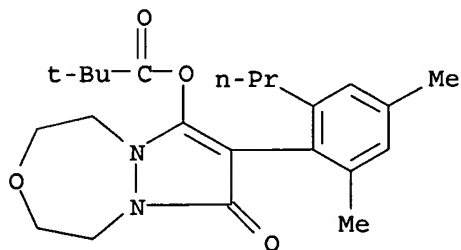
RN 243973-31-1 USPATFULL

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



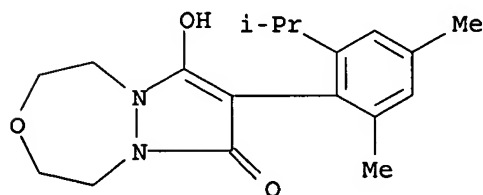
RN 243973-32-2 USPATFULL

CN Propanoic acid, 2,2-dimethyl-, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



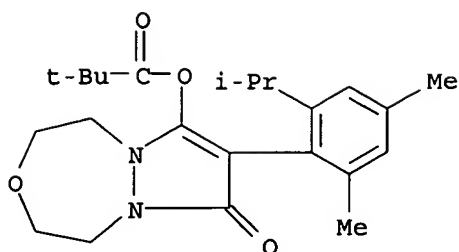
RN 243973-33-3 USPATFULL

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



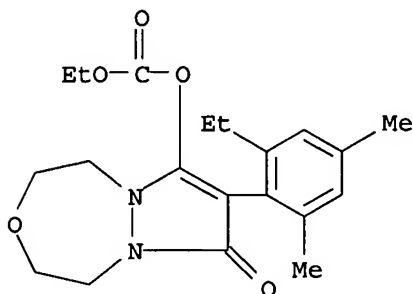
RN 243973-34-4 USPATFULL

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



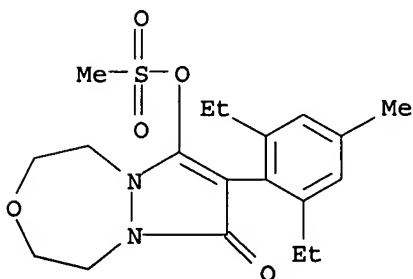
RN 328932-72-5 USPATFULL

CN Carbonic acid, ethyl 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



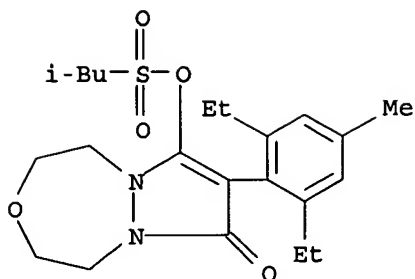
RN 328932-73-6 USPATFULL

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



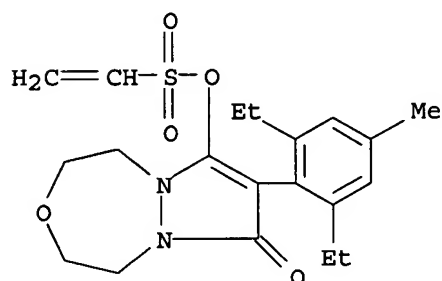
RN 328932-74-7 USPATFULL

CN 1-Propanesulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



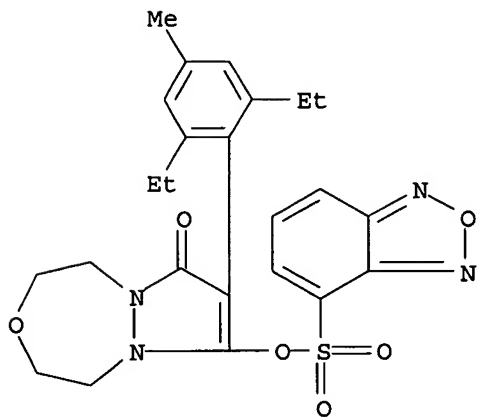
RN 328932-75-8 USPATFULL

CN Ethenesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



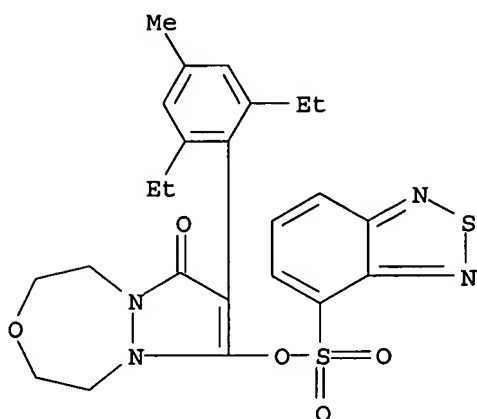
RN 328932-76-9 USPATFULL

CN 2,1,3-Benzoxadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



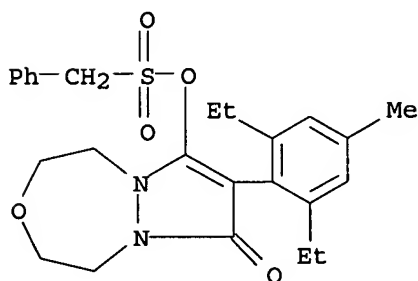
RN 328932-77-0 USPATFULL

CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



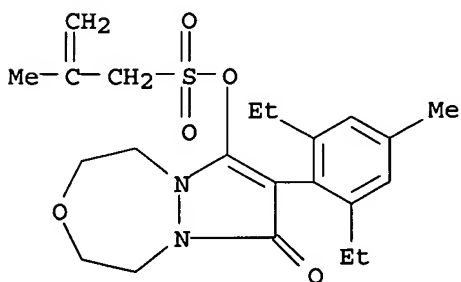
RN 328932-78-1 USPATFULL

CN Benzenemethanesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



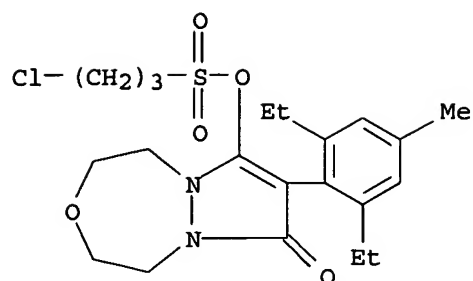
RN 328932-79-2 USPATFULL

CN 2-Propene-1-sulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



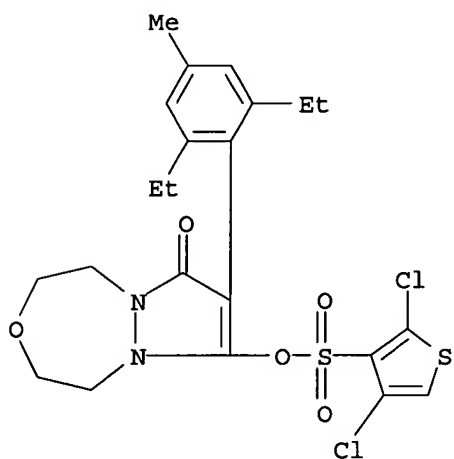
RN 328932-80-5 USPATFULL

CN 1-Propanesulfonic acid, 3-chloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



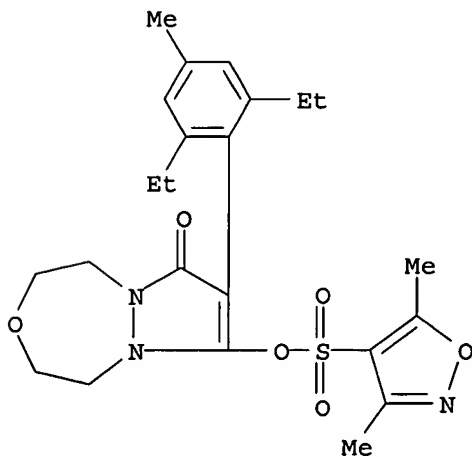
RN 328932-81-6 USPATFULL

CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 8-(2,6-diethyl-4-methylphenyl)-
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester
(9CI) (CA INDEX NAME)



RN 328932-82-7 USPATFULL

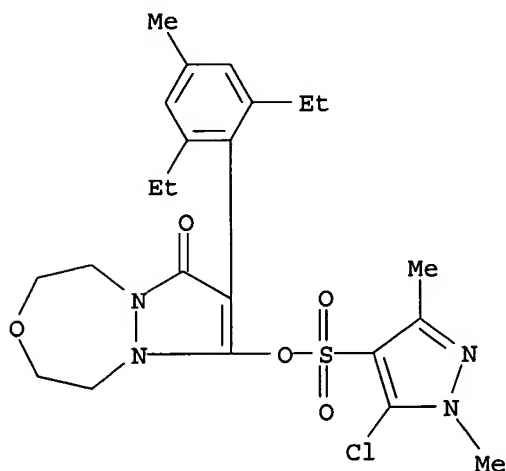
CN 4-Isoxazolesulfonic acid, 3,5-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester
(9CI) (CA INDEX NAME)



RN 328932-83-8 USPATFULL

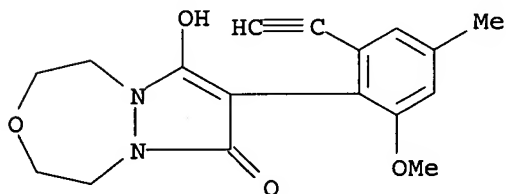
CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 8-(2,6-diethyl-4-

methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



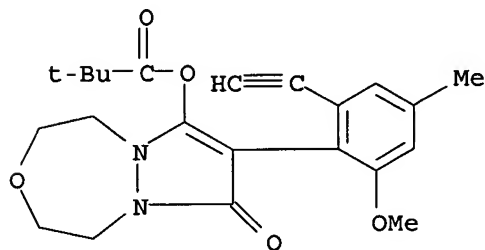
RN 328932-84-9 USPATFULL

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



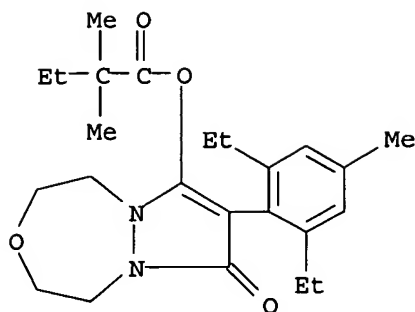
RN 328932-85-0 USPATFULL

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



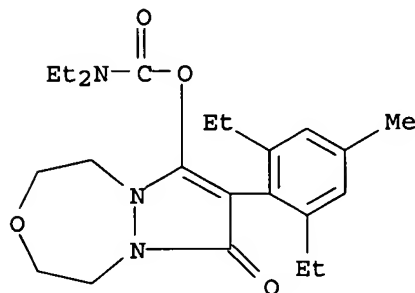
RN 328932-91-8 USPATFULL

CN Butanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



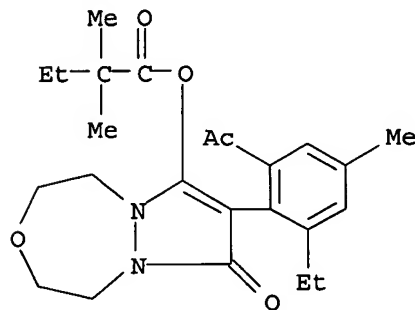
RN 328932-92-9 USPATFULL

CN Carbamic acid, diethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 328932-93-0 USPATFULL

CN Butanoic acid, 2,2-dimethyl-, 8-(2-acetyl-6-ethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

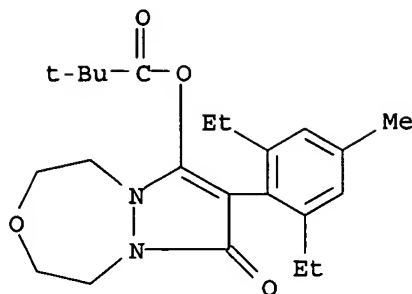


IT 243973-20-8P

(preparation as herbicides for use with safeners)

RN 243973-20-8 USPATFULL

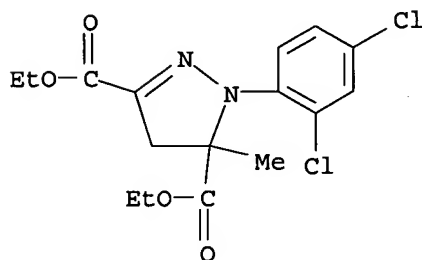
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



IT 135590-91-9D, Mefenpyr-diethyl, mixts. with pyrazole derivative herbicides 135591-00-3, Mefenpyr 135591-00-3D, sulfonium salt, mixts. with pyrazole derivative herbicides 328933-01-3D, mixts. with pyrazole derivative herbicides (safened herbicidal compns.)

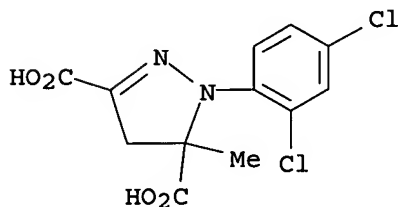
RN 135590-91-9 USPATFULL

CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



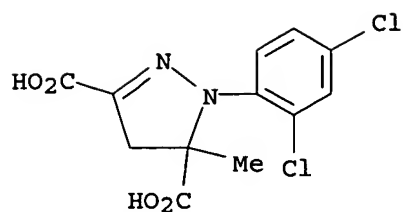
RN 135591-00-3 USPATFULL

CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl- (9CI) (CA INDEX NAME)



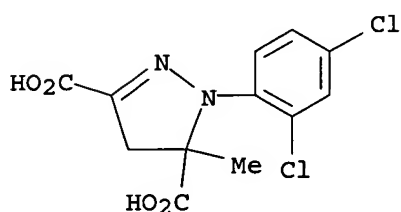
RN 135591-00-3 USPATFULL

CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl- (9CI) (CA INDEX NAME)



RN 328933-01-3 USPATFULL

CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diammonium salt (9CI) (CA INDEX NAME)

● 2 NH₃

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 13:46:56 ON 24 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 24 Aug 2004 VOL 141 ISS 9

FILE LAST UPDATED: 23 Aug 2004 (20040823/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l26 all hitstr tot

L26 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:185500 HCAPLUS

DN 134:218318

ED Entered STN: 16 Mar 2001

TI Selective herbicidal compositions for maize and sorghum containing

herbicide safeners
 IN Glock, Jutta
 PA Syngenta Participations A.-G., Switz.
 SO PCT Int. Appl., 43 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A01N043-90
 ICS C07D498-04
 CC 5-3 (Agrochemical Bioregulators)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001017353	A1	20010315	WO 2000-EP8661	20000905 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1209975	A1	20020605	EP 2000-965924	20000905 <--
	EP 1209975	B1	20031112		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	AU 762586	B2	20030626	AU 2000-76504	20000905 <--
	AT 253824	E	20031115	AT 2000-965924	20000905 <--
	PT 1209975	T	20040331	PT 2000-965924	20000905 <--
	ES 2211615	T3	20040716	ES 2000-965924	20000905 <--
PRAI	CH 1999-1643	A	19990907	<--	
	WO 2000-EP8661	W	20000905	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001017353	ICM	A01N043-90
	ICS	C07D498-04

OS MARPAT 134:218318

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A selective herbicidal composition for controlling grasses and weeds in crops of useful plants, such as cereals, maize and sorghum, comprises a herbicidal compound I, and a herbicide antidote IIa, IIb, IIc, IId, or IIe (Markush included).

ST herbicide antidote safener maize sorghum cereal

IT Cereal (grain)

Corn

Sorghum

(selective herbicidal compns. containing herbicide safeners for)

IT Herbicide antidotes

Herbicides

Weed control

(selective herbicidal compns. for maize and sorghum containing herbicide safeners)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Ciba Geigy Ag; WO 9611574 A 1996 HCAPLUS

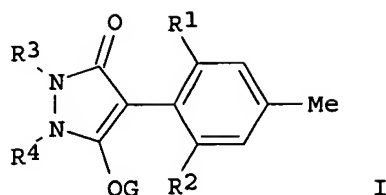
- (2) Ciba Geigy Ag; WO 9621652 A 1996 HCAPLUS
 (3) Novartis Erfind Verwalt GmbH; WO 9947525 A 1999 HCAPLUS
 (4) Novartis Erfind Verwalt GmbH; WO 0047585 A 2000 HCAPLUS
 (5) Szczepanski, H; WO 9813361 A 1998 HCAPLUS

L26 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:185499 HCAPLUS
 DN 134:203787
 ED Entered STN: 16 Mar 2001
 TI Preparation of pyrazole derivative herbicides for use with safeners
 IN Glock, Jutta; Friedmann, Adrian Alberto; Cornes, Derek
 PA Syngenta Participations A.-G., Switz.
 SO PCT Int. Appl., 52 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM A01N043-90
 ICS A01N047-18; A01N047-06; A01N043-90; A01N043-56; A01N043-42;
 A01N037-06; A01N037-02; A01N027-00; A01N025-32; A01N047-18;
 A01N043-56; A01N043-42; A01N037-06; A01N037-02; A01N027-00;
 A01N025-32; A01N047-06; A01N043-56; A01N043-42
 CC 5-3 (Agrochemical Bioregulators)
 Section cross-reference(s): 28
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017352	A1	20010315	WO 2000-EP8659	20000905
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1209973	A1	20020605	EP 2000-962443	20000905
EP 1209973	B1	20040225		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
AU 762436	B2	20030626	AU 2000-74172	20000905
AT 260035	E	20040315	AT 2000-962443	20000905
US 6555499	B1	20030429	US 2002-69829	20020226
PRAI CH 1999-1640	A	19990907		
WO 2000-EP8659	W	20000905		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001017352	ICM	A01N043-90
	ICS	A01N047-18; A01N047-06; A01N043-90; A01N043-56; A01N043-42; A01N037-06; A01N027-00; A01N025-32; A01N047-18; A01N043-56; A01N043-42; A01N037-06; A01N037-02; A01N027-00; A01N025-32; A01N047-06; A01N043-56; A01N043-42
US 6555499	ECLA	A01N043/90; A01N047/06; A01N047/18
OS MARPAT 134:203787		
GI		



AB The pyrazole herbicides I (R1, R2 = halo, nitro, cyano, alkyl, alkenyl, etc.; R3R4 = alkyleneoxaalkylene; G = H, COCMe3, CO2Et, etc.) are prepared for use with safeners, selected from cloquintocet, an alkali, alkaline earth, sulfonium or ammonium salt of cloquintocet, cloquintocet-mexyl, mefenpyr, an alkali, alkaline earth, sulfonium or ammonium salt of a mefenpyr and mefenpyr-diethyl, and formulated with an additive containing a vegetable or animal oil or a mineral oil, an alkyl ester of the oil, or mixts. of the oils and oil derivs.

ST pyrazole deriv prepn herbicide safened

IT Herbicide antidotes

(for pyrazole derivative herbicides)

IT Herbicides

(preparation of pyrazole derivative herbicides for use with safeners)

IT 34604-52-9P 243973-68-4P 243973-69-5P 243973-70-8P

243973-71-9P 243973-72-0P 243973-73-1P 243973-74-2P 243973-75-3P

314020-44-5P 328932-71-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate in preparation of pyrazole derivative herbicide for use with safeners)

IT 243973-17-3P 243973-18-4P 243973-19-5P

243973-22-0P 243973-23-1P 243973-24-2P

243973-25-3P 243973-26-4P 243973-27-5P

243973-28-6P 243973-29-7P 243973-30-0P

243973-31-1P 243973-32-2P 243973-33-3P

243973-34-4P 328932-72-5P 328932-73-6P

328932-74-7P 328932-75-8P 328932-76-9P

328932-77-0P 328932-78-1P 328932-79-2P

328932-80-5P 328932-81-6P 328932-82-7P

328932-83-8P 328932-84-9P 328932-85-0P

328932-86-1P 328932-88-3P 328932-89-4P 328932-90-7P

328932-91-8P 328932-92-9P 328932-93-0P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation as herbicide for use with safeners)

IT 243973-20-8P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation as herbicides for use with safeners)

IT 104-80-3 111-46-6, Diethylene glycol, reactions 124-63-0,

Methanesulfonyl chloride 16466-61-8 243973-76-4 328932-70-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant in preparation of pyrazole derivative herbicide for use with safeners)

IT 88349-88-6D, Cloquintocet, mixts. with pyrazole derivative herbicides

88349-88-6D, Cloquintocet, sulfonium salt, mixts. with pyrazole derivative

herbicides 88350-58-7D, Cloquintocet ammonium salt, mixts. with pyrazole

derivative herbicides 99607-70-2D, Cloquintocet-mexyl, mixts. with pyrazole

derivative herbicides 135590-91-9D, Mefenpyr-diethyl, mixts. with

pyrazole derivative herbicides 135591-00-3, Mefenpyr

135591-00-3D, sulfonium salt, mixts. with pyrazole derivative

herbicides 328933-01-3D, mixts. with pyrazole derivative herbicides

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(safened herbicidal compns.)

IT 328932-94-1 328932-95-2 328932-96-3 328932-97-4 328932-98-5
328932-99-6 328933-00-2

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(safened herbicide)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Ciba Geigy Ag; WO 9611574 A 1996 HCAPLUS
- (2) Ciba Geigy Ag; WO 9621652 A 1996 HCAPLUS
- (3) Hazen, J; US 4834908 A 1989 HCAPLUS
- (4) Novartis, E; WO 9947525 A 1999 HCAPLUS
- (5) Novartis Erfind Verwalt GmbH; WO 0047585 A 2000 HCAPLUS
- (6) Szczepanski, H; WO 9813361 A 1998 HCAPLUS

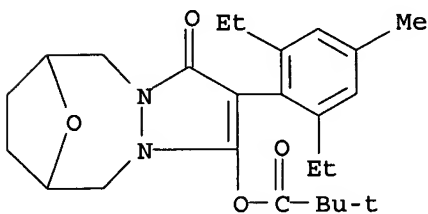
IT 243973-68-4P 314020-44-5P 328932-71-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(intermediate in preparation of pyrazole derivative herbicide for use with
safeners)

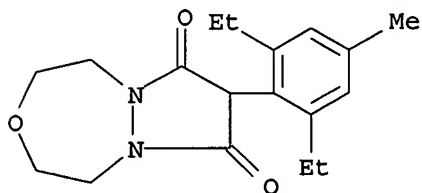
RN 243973-68-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-
hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI)
(CA INDEX NAME)



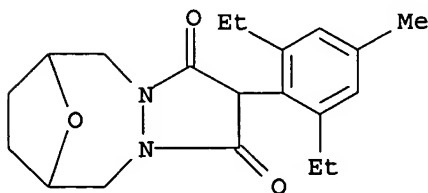
RN 314020-44-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-(2,6-diethyl-4-
methylphenyl)tetrahydro- (9CI) (CA INDEX NAME)



RN 328932-71-4 HCAPLUS

CN 6,9-Epoxy-1H-pyrazolo[1,2-a][1,2]diazocine-1,3(2H)-dione,
2-(2,6-diethyl-4-methylphenyl)hexahydro- (9CI) (CA INDEX NAME)

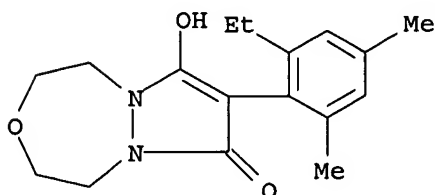


IT 243973-17-3P 243973-18-4P 243973-19-5P
 243973-22-0P 243973-23-1P 243973-24-2P
 243973-25-3P 243973-26-4P 243973-27-5P
 243973-28-6P 243973-29-7P 243973-30-0P
 243973-31-1P 243973-32-2P 243973-33-3P
 243973-34-4P 328932-72-5P 328932-73-6P
 328932-74-7P 328932-75-8P 328932-76-9P
 328932-77-0P 328932-78-1P 328932-79-2P
 328932-80-5P 328932-81-6P 328932-82-7P
 328932-83-8P 328932-84-9P 328932-85-0P
 328932-91-8P 328932-92-9P 328932-93-0P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation as herbicide for use with safeners)

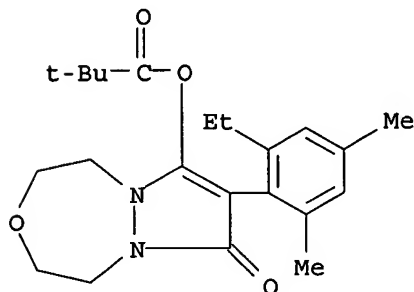
RN 243973-17-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



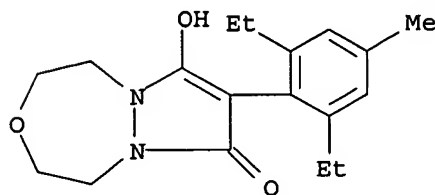
RN 243973-18-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 243973-19-5 HCAPLUS

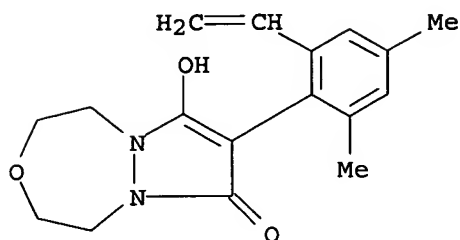
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 243973-22-0 HCAPLUS

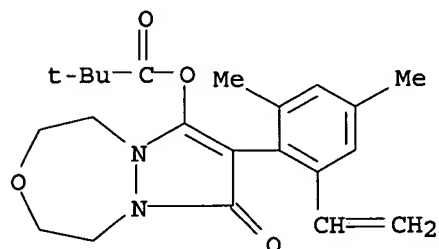
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethenyl-4,6-

dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



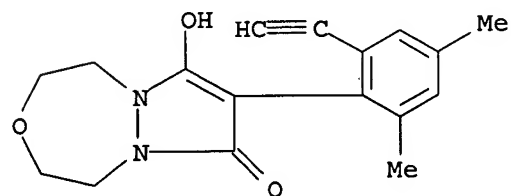
RN 243973-23-1 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



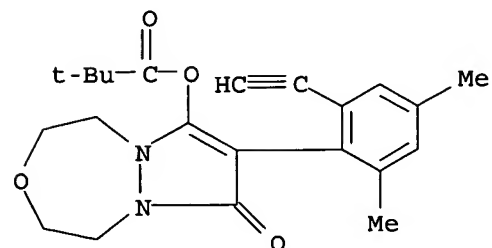
RN 243973-24-2 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



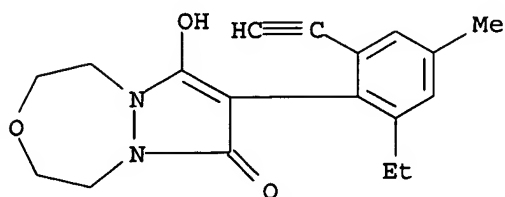
RN 243973-25-3 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



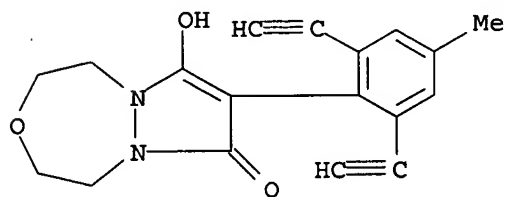
RN 243973-26-4 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



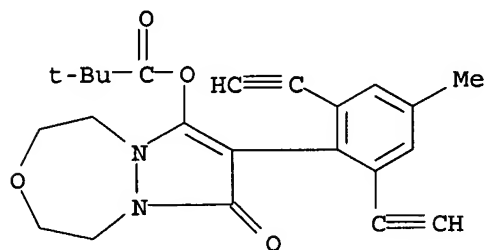
RN 243973-27-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



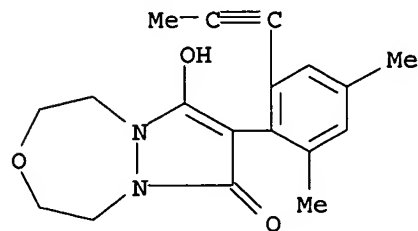
RN 243973-28-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



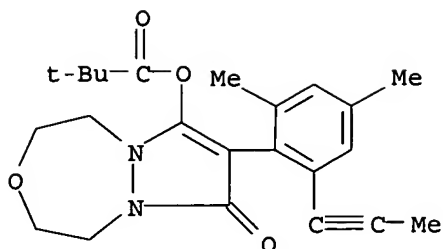
RN 243973-29-7 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



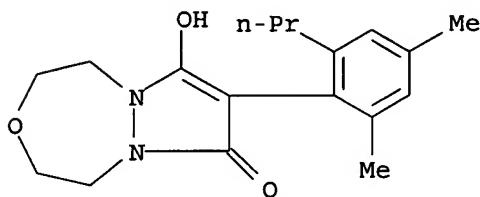
RN 243973-30-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



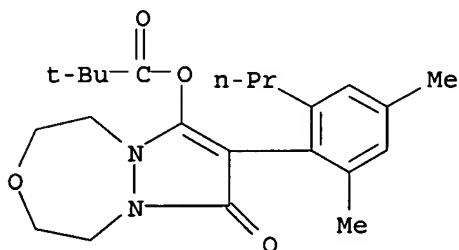
RN 243973-31-1 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



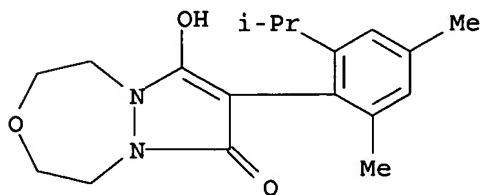
RN 243973-32-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



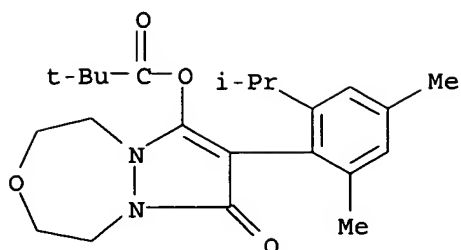
RN 243973-33-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



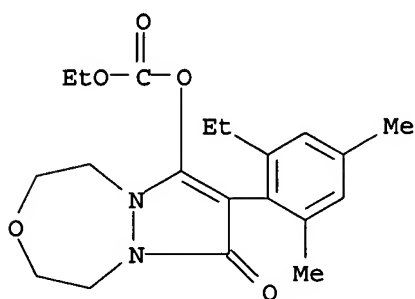
RN 243973-34-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



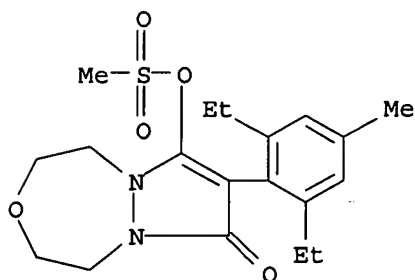
RN 328932-72-5 HCAPLUS

CN Carbonic acid, ethyl 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



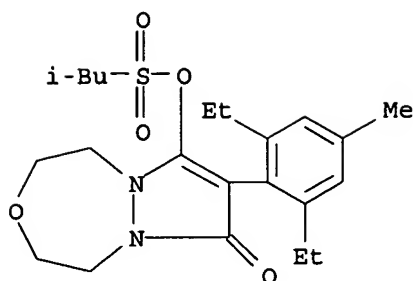
RN 328932-73-6 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



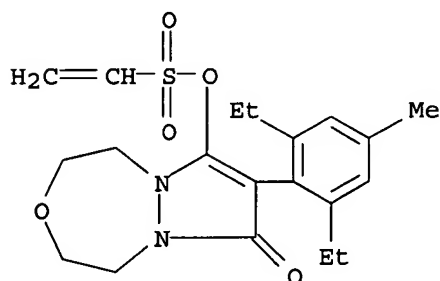
RN 328932-74-7 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



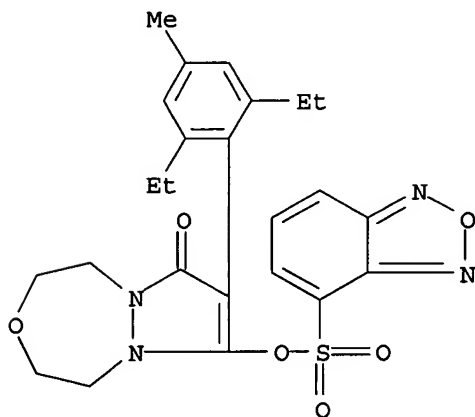
RN 328932-75-8 HCAPLUS

CN Ethenesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



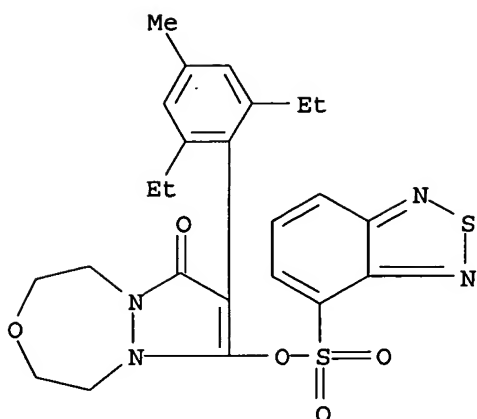
RN 328932-76-9 HCAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



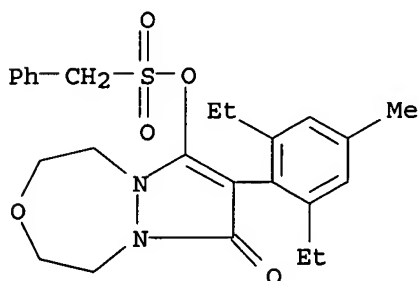
RN 328932-77-0 HCAPLUS

CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



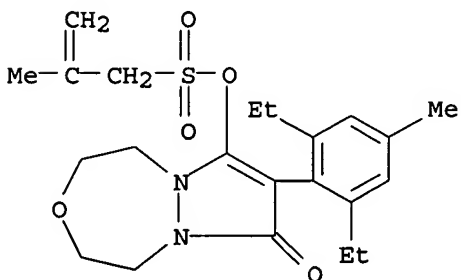
RN 328932-78-1 HCAPLUS

CN Benzenemesanesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



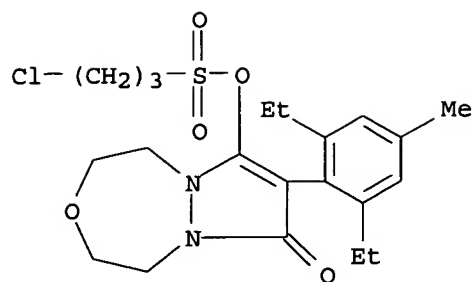
RN 328932-79-2 HCAPLUS

CN 2-Propene-1-sulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



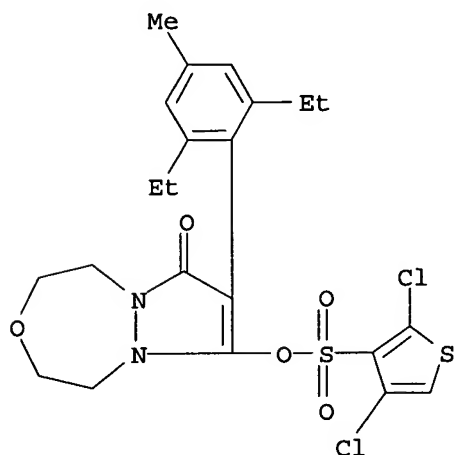
RN 328932-80-5 HCAPLUS

CN 1-Propanesulfonic acid, 3-chloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



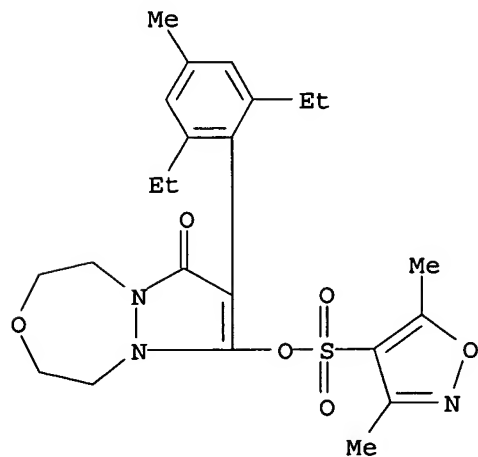
RN 328932-81-6 HCAPLUS

CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 328932-82-7 HCAPLUS

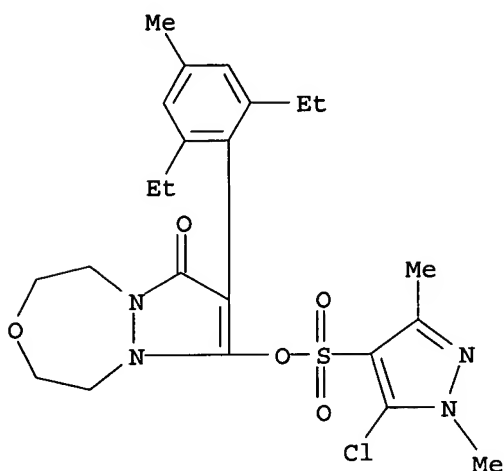
CN 4-Isioxazolesulfonic acid, 3,5-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 328932-83-8 HCAPLUS

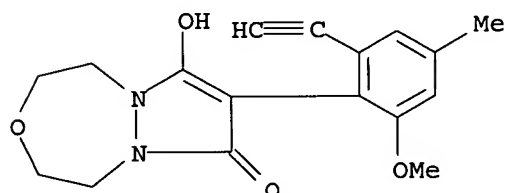
CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 8-(2,6-diethyl-4-

methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



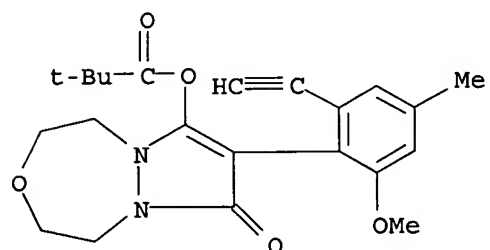
RN 328932-84-9 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



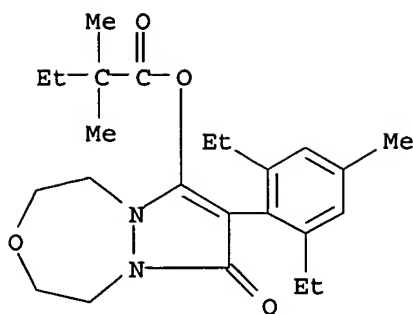
RN 328932-85-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



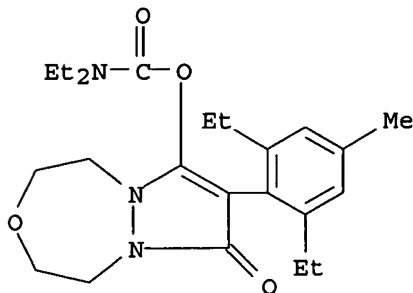
RN 328932-91-8 HCAPLUS

CN Butanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



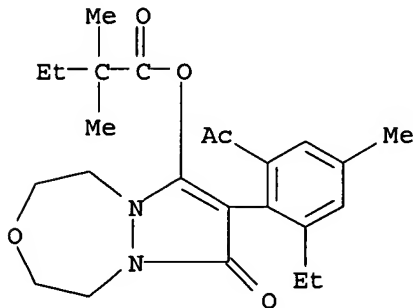
RN 328932-92-9 HCAPLUS

CN Carbamic acid, diethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 328932-93-0 HCAPLUS

CN Butanoic acid, 2,2-dimethyl-, 8-(2-acetyl-6-ethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

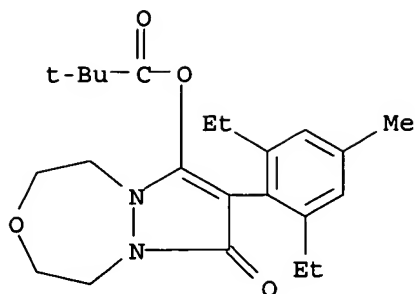


IT 243973-20-8P

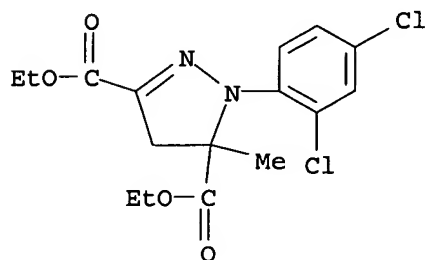
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as herbicides for use with safeners)

RN 243973-20-8 HCAPLUS

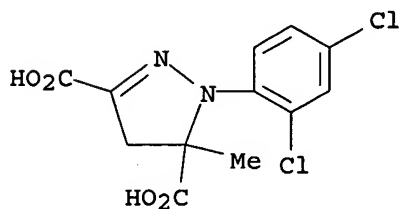
CN Propanoic acid, 2,2-dimethyl-, 8-(2-acetyl-6-ethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



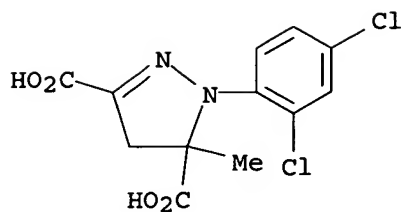
IT 135590-91-9D, Mefenpyr-diethyl, mixts. with pyrazole derivative herbicides 135591-00-3, Mefenpyr 135591-00-3D, sulfonium salt, mixts. with pyrazole derivative herbicides 328933-01-3D, mixts. with pyrazole derivative herbicides
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (safened herbicidal compns.)
 RN 135590-91-9 HCAPLUS
 CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



RN 135591-00-3 HCAPLUS
 CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl- (9CI) (CA INDEX NAME)

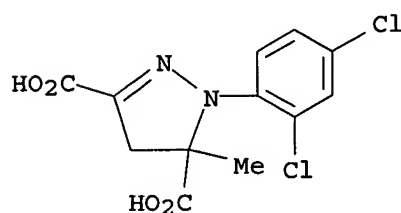


RN 135591-00-3 HCAPLUS
 CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl- (9CI) (CA INDEX NAME)



RN 328933-01-3 HCAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diammonium salt (9CI) (CA INDEX NAME)

● 2 NH₃

L26 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:185498 HCAPLUS

DN 134:218317

ED Entered STN: 16 Mar 2001

TI Optionally-safened synergistic herbicidal compositions and preparation of the pyrazole derivative component

IN Glock, Jutta; Friedmann, Adrian Alberto; Cornes, Derek

PA Syngenta Participations A.-G., Switz.

SO PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N043-90

ICS A01N025-32; A01N043-90; A01N043-76; A01N043-40; A01N035-10;

A01N027-00

CC 5-3 (Agrochemical Bioregulators)

Section cross-reference(s): 28

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001017351	A1	20010315	WO 2000-EP8658	20000905
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1209972	A1	20020605	EP 2000-960605	20000905
	EP 1209972	B1	20030528		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL

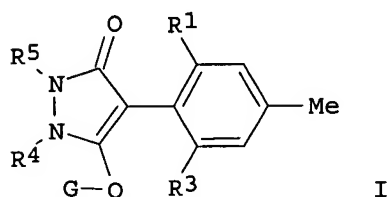
AT 241272	E	20030615	AT 2000-960605	20000905
AU 762346	B2	20030626	AU 2000-72844	20000905
PT 1209972	T	20031031	PT 2000-960605	20000905
ES 2200927	T3	20040316	ES 2000-960605	20000905
PRAI CH 1999-1641	A	19990907		
WO 2000-EP8658	W	20000905		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001017351	ICM	A01N043-90
	ICS	A01N025-32; A01N043-90; A01N043-76; A01N043-40; A01N035-10; A01N027-00

OS MARPAT 134:218317

GI



AB An optionally safened synergistic selective herbicidal composition comprises:
(a) a pyrazole derivative I (R₁, R₃ = halo, nitro, cyano, alkyl, alkenyl, etc.; R₄R₅ = CH₂CH₂OCH₂CH₂, etc.; G = H COCMe₃, CO₂Et, etc.); (b) a herbicide selected from phenoxyphenoxypropionic acids, hydroxylamines, sulfonylureas, imidazolinones, pyrimidines, triazines, ureas, PPO, chloroacetanilides, phenoxyacetic acids, triazinones, dinitroanilines, azinones, carbamates, oxyacetamides, thiolcarbamates, azole-ureas, benzoic acids, anilides, nitriles, triones and sulfonamides, as well as from amitrol, benfuresate, bentazone, cinmethylin, clomazone, clopyralid, difenzoquat, dithiopyr, ethofumesate, flurochloridone, indanofan, isoxaben, oxaziclomefone, pyridate, pyridafol, quinclorac, quinmerac, tridiphane and flamprop; and optionally (c) a safener selected from cloquintocet, an alkali, alkaline earth, sulfonium or ammonium salt of cloquintocet, cloquintocet-mexyl, mefenpyr, an alkali, alkaline earth, sulfonium or ammonium salt of mefenpyr and mefenpyr-diethyl; and/or (d) an additive comprising an oil of vegetable or animal origin, a mineral oil, the alkyl esters thereof or mixts. of these oils and oil derivs. The preparation of I is given.

ST safened synergistic herbicidal compn pyrazole deriv prepn

IT Hydrocarbon oils

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(mixts. with pyrazole derivative herbicides and safeners; safened synergistic herbicidal compns.)

IT Herbicide antidotes

(optionally-safened synergistic herbicidal compns. and preparation of the pyrazole derivative component)

IT Herbicides

(synergistic; optionally-safened synergistic herbicidal compns. and preparation of the pyrazole derivative component)

IT 34604-52-9P 243973-69-5P 243973-70-8P 243973-71-9P 243973-73-1P
243973-74-2P 243973-75-3P 314020-44-5P 328932-70-3P
328932-71-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(intermediate in preparation of pyrazole derivative component in

- optionally-safened synergistic herbicidal compns.)
- IT 147230-14-6, Merge
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (mixts. with pyrazole derivative herbicides and safeners; safened synergistic herbicidal compns.)
- IT 61-82-5D, Amitrol, mixts. with pyrazole derivative herbicides and optional safeners 1702-17-6D, Clopyralid, mixts. with pyrazole derivative herbicides and optional safeners 25057-89-0D, Bentazone, mixts. with pyrazole derivative herbicides and optional safeners 26225-79-6D, Ethofumesate, mixts. with pyrazole derivative herbicides and optional safeners 40020-01-7D, Pyridafol, mixts. with pyrazole derivative herbicides and optional safeners 49866-87-7D, Difenzoquat, mixts. with pyrazole derivative herbicides and optional safeners 55512-33-9D, Pyridate, mixts. with pyrazole derivative herbicides and optional safeners 58138-08-2, Tridiphane 58667-63-3D, Flamprop;, mixts. with pyrazole derivative herbicides and optional safeners 61213-25-0D, Flurochloridone, mixts. with pyrazole derivative herbicides and optional safeners 68505-69-1D, Benfuresate, mixts. with pyrazole derivative herbicides and optional safeners 81777-89-1D, Clomazone, mixts. with pyrazole derivative herbicides and optional safeners 82558-50-7D, Isoxaben, mixts. with pyrazole derivative herbicides and optional safeners 84087-01-4D, Quinclorac, mixts. with pyrazole derivative herbicides and optional safeners 87818-31-3D, Cinmethylin, mixts. with pyrazole derivative herbicides and optional safeners 90717-03-6D, Quinmerac, mixts. with pyrazole derivative herbicides and optional safeners 97886-45-8D, Dithiopyr, mixts. with pyrazole derivative herbicides and optional safeners 133220-30-1D, Indanofan, mixts. with pyrazole derivative herbicides and optional safeners 153197-14-9D, Oxaziclomefone, mixts. with pyrazole derivative herbicides and optional safeners
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (optionally-safened synergistic herbicidal compns.)
- IT 243973-17-3P 243973-18-4P 243973-19-5P
 243973-20-8P 243973-21-9P 243973-22-0P
 243973-23-1P 243973-24-2P 243973-25-3P
 243973-26-4P 243973-27-5P 243973-28-6P
 243973-29-7P 243973-30-0P 243973-31-1P
 243973-32-2P 243973-33-3P 243973-34-4P
 243973-68-4P 328932-73-6P 328932-74-7P
 328932-75-8P 328932-76-9P 328932-77-0P
 328932-78-1P 328932-80-5P 328932-81-6P
 328932-82-7P 328932-83-8P 328932-84-9P
 328932-85-0P 328932-86-1P 328932-88-3P 328932-89-4P
 328932-90-7P 328932-91-8P 328932-92-9P
 328932-93-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation as component in optionally-safened synergistic herbicidal compns.)
- IT 111-46-6, Diethylene glycol, reactions 124-63-0, Methyl sulfochloride 2144-40-3, cis-2,5-Bis(hydroxymethyl)tetrahydrofuran 16466-61-8 243973-72-0 243973-76-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant in preparation of pyrazole derivative component in optionally-safened synergistic herbicidal compns.)
- IT 88349-88-6D, Cloquintocet, mixts. with pyrazole derivative herbicides and a second herbicide 88349-88-6D, Cloquintocet, sulfonium salt, mixts. with pyrazole derivative herbicides and a second herbicide 88350-58-7D, Cloquintocet ammonium salt, mixts. with pyrazole derivative herbicides and a second herbicide 99607-70-2D, Cloquintocet-mexyl, mixts. with pyrazole derivative herbicides and a second herbicide 135590-91-9D, Mefenpyr-diethyl, mixts. with pyrazole derivative herbicides and a second herbicide 135591-00-3D, Mefenpyr, mixts. with pyrazole derivative herbicides and a second herbicide 135591-00-3D, Mefenpyr,

sulfonium salt, mixts. with pyrazole derivative herbicides and a second herbicide 328933-01-3D, Mefenpyr diammonium salt, mixts. with pyrazole derivative herbicides and a second herbicide

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(safened synergistic herbicidal compns.)

IT 329280-32-2P 329280-33-3P 329280-34-4P 329280-35-5P 329280-36-6P
329280-37-7P 329280-38-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(safened synergistic herbicidal compns.)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

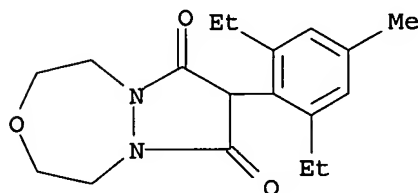
- (1) Bayer Ag; EP 0508126 A 1992 HCAPLUS
- (2) Bayer Ag; DE 19728568 A 1998 HCAPLUS
- (3) Ciba Geigy Ag; WO 9621652 A 1996 HCAPLUS
- (4) Novartis, E; WO 9947525 A 1999 HCAPLUS

IT 314020-44-5P 328932-71-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(intermediate in preparation of pyrazole derivative component in
optionally-safened synergistic herbicidal compns.)

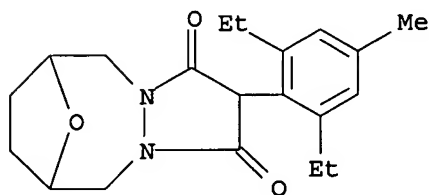
RN 314020-44-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-(2,6-diethyl-4-methylphenyl)tetrahydro- (9CI) (CA INDEX NAME)



RN 328932-71-4 HCAPLUS

CN 6,9-Epoxy-1H-pyrazolo[1,2-a][1,2]diazocine-1,3(2H)-dione,
2-(2,6-diethyl-4-methylphenyl)hexahydro- (9CI) (CA INDEX NAME)



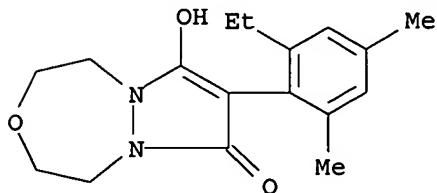
IT 243973-17-3P 243973-18-4P 243973-19-5P
243973-20-8P 243973-21-9P 243973-22-0P
243973-23-1P 243973-24-2P 243973-25-3P
243973-26-4P 243973-27-5P 243973-28-6P
243973-29-7P 243973-30-0P 243973-31-1P
243973-32-2P 243973-33-3P 243973-34-4P
243973-68-4P 328932-73-6P 328932-74-7P
328932-75-8P 328932-76-9P 328932-77-0P
328932-78-1P 328932-80-5P 328932-81-6P
328932-82-7P 328932-83-8P 328932-84-9P
328932-85-0P 328932-91-8P 328932-92-9P
328932-93-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation as component in optionally-safened synergistic herbicidal

compns.)

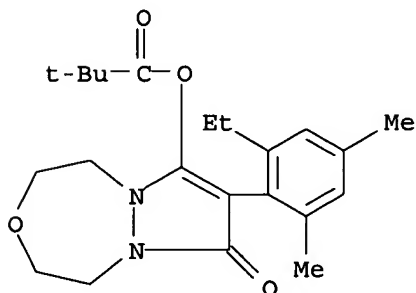
RN 243973-17-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



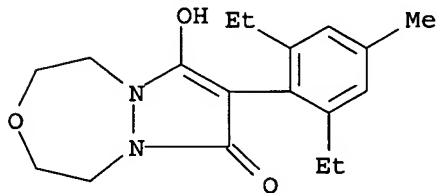
RN 243973-18-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



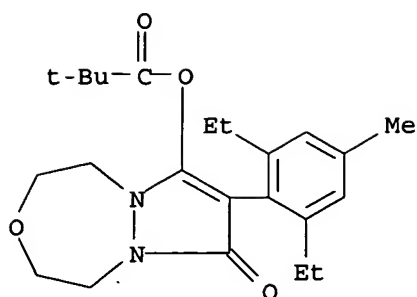
RN 243973-19-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



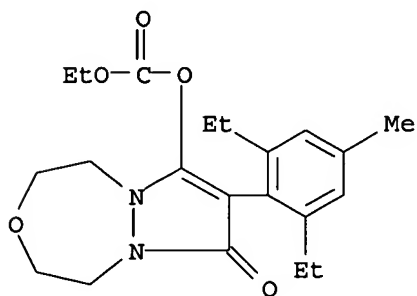
RN 243973-20-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



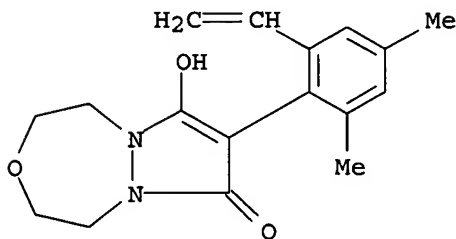
RN 243973-21-9 HCAPLUS

CN Carbonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ethyl ester (9CI) (CA INDEX NAME)



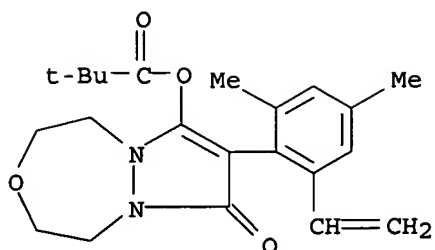
RN 243973-22-0 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



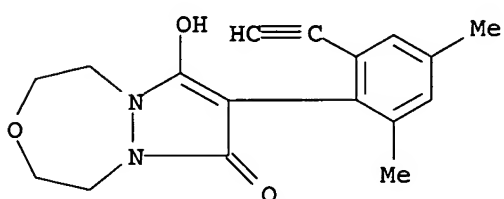
RN 243973-23-1 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



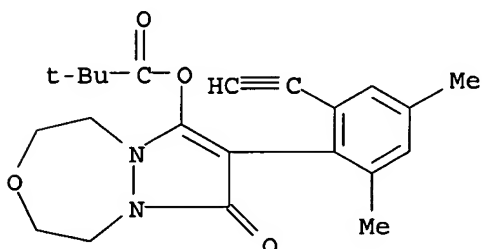
RN 243973-24-2 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



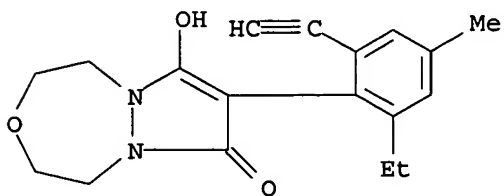
RN 243973-25-3 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



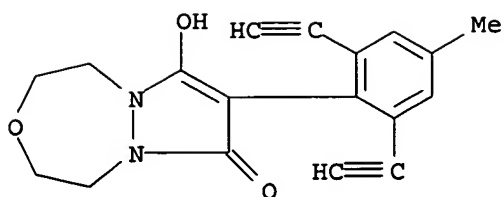
RN 243973-26-4 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



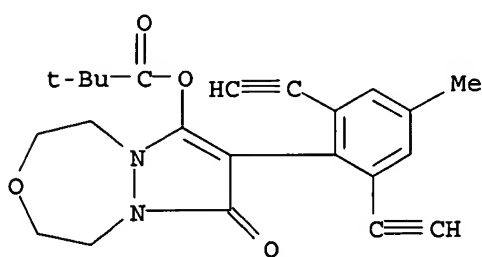
RN 243973-27-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



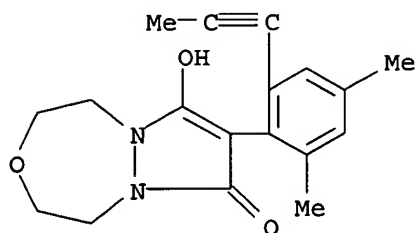
RN 243973-28-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



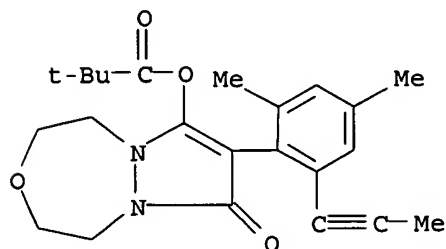
RN 243973-29-7 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



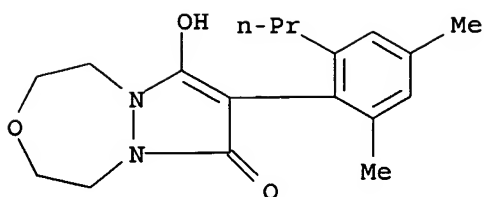
RN 243973-30-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



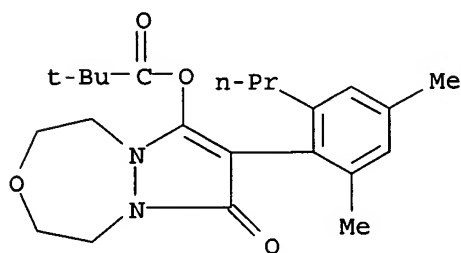
RN 243973-31-1 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



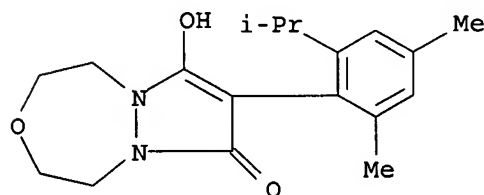
RN 243973-32-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



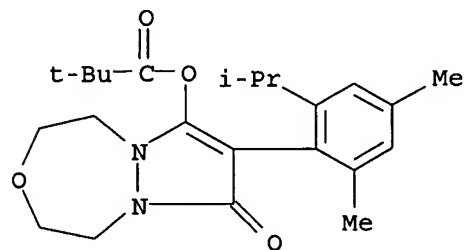
RN 243973-33-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



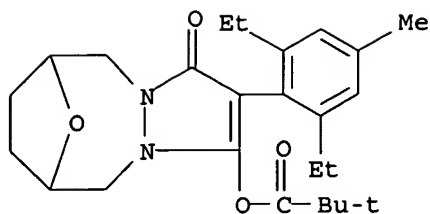
RN 243973-34-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



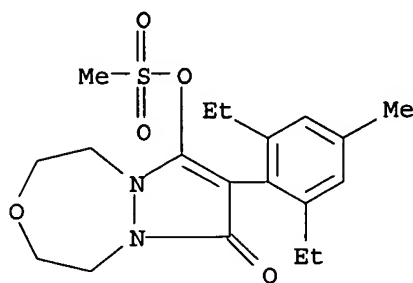
RN 243973-68-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI)
(CA INDEX NAME)



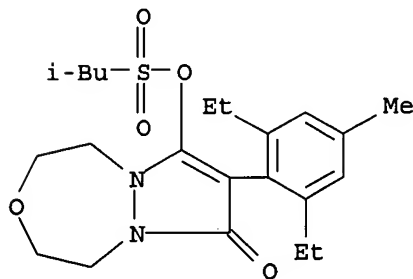
RN 328932-73-6 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



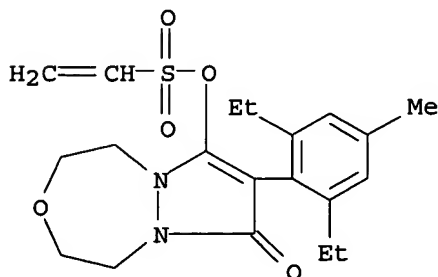
RN 328932-74-7 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



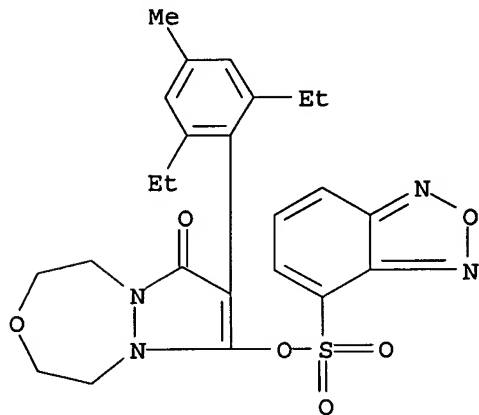
RN 328932-75-8 HCAPLUS

CN Ethenesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



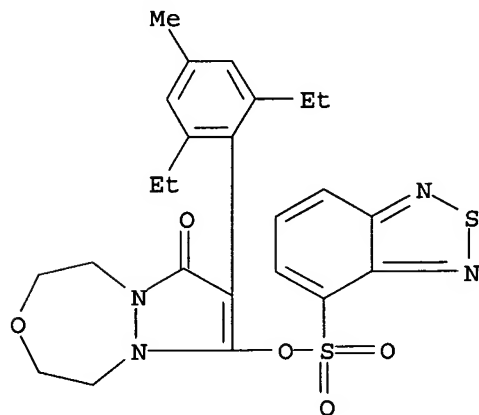
RN 328932-76-9 HCAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester
(9CI) (CA INDEX NAME)



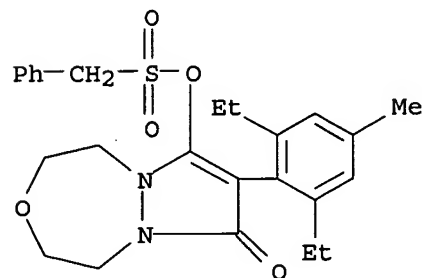
RN 328932-77-0 HCAPLUS

CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester
(9CI) (CA INDEX NAME)



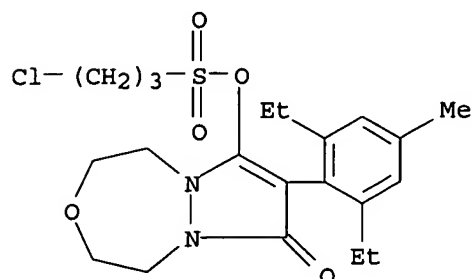
RN 328932-78-1 HCAPLUS

CN Benzenemethanesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-
tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



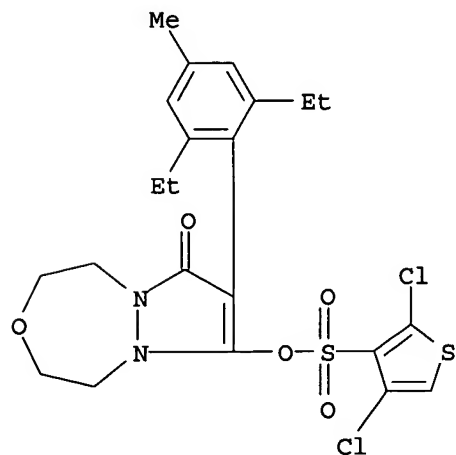
RN 328932-80-5 HCAPLUS

CN 1-Propanesulfonic acid, 3-chloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



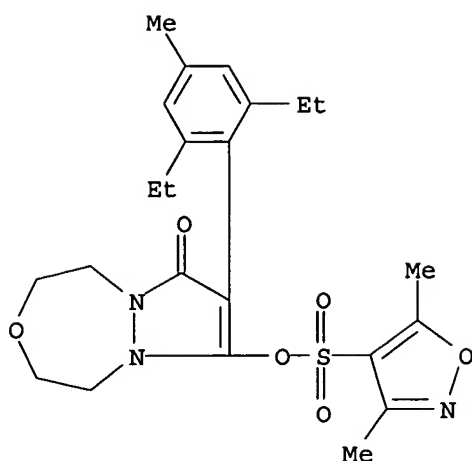
RN 328932-81-6 HCAPLUS

CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



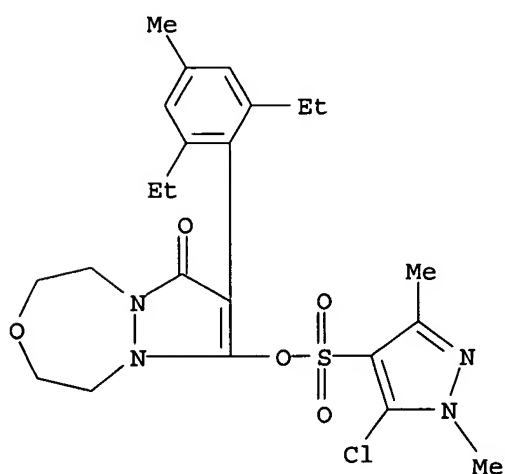
RN 328932-82-7 HCAPLUS

CN 4-Isoxazolesulfonic acid, 3,5-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



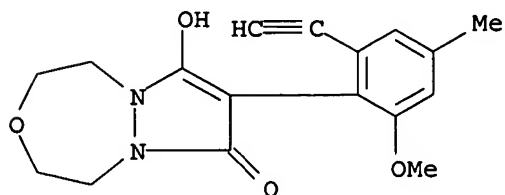
RN 328932-83-8 HCAPLUS

CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



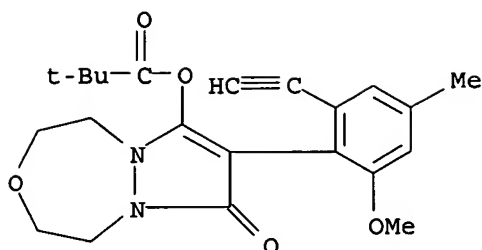
RN 328932-84-9 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



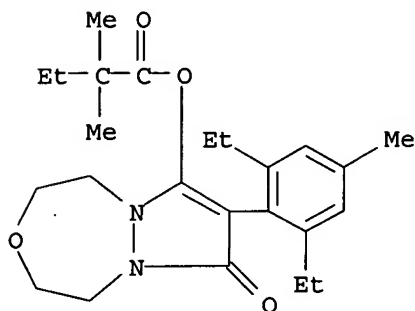
RN 328932-85-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



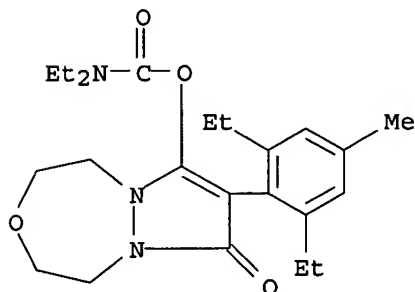
RN 328932-91-8 HCAPLUS

CN Butanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



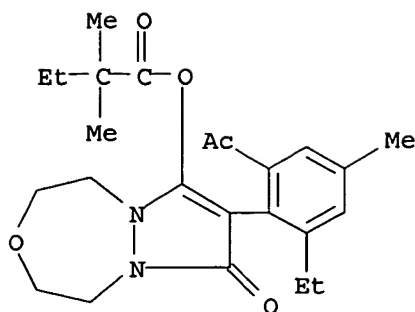
RN 328932-92-9 HCAPLUS

CN Carbamic acid, diethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

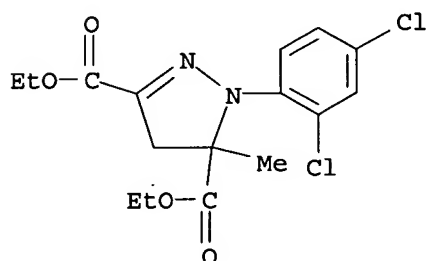


RN 328932-93-0 HCAPLUS

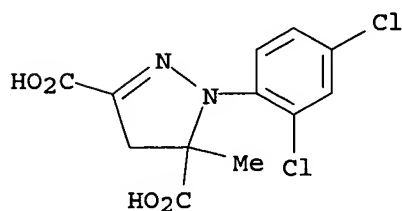
CN Butanoic acid, 2,2-dimethyl-, 8-(2-acetyl-6-ethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



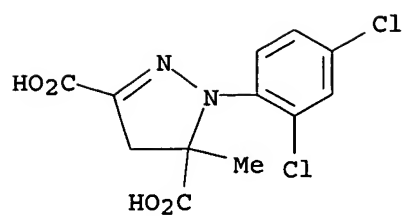
IT 135590-91-9D, Mefenpyr-diethyl, mixts. with pyrazole derivative herbicides and a second herbicide 135591-00-3D, Mefenpyr, mixts. with pyrazole derivative herbicides and a second herbicide 328933-01-3D, Mefenpyr diammonium salt, mixts. with pyrazole derivative herbicides and a second herbicide
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (safened synergistic herbicidal compns.)
 RN 135590-91-9 HCAPLUS
 CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



RN 135591-00-3 HCAPLUS
 CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl- (9CI) (CA INDEX NAME)



RN 328933-01-3 HCAPLUS
 CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diammonium salt (9CI) (CA INDEX NAME)



● 2 NH₃

=>